



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 :
H05K 1/02, 13/08, C22B 7/00

A1

(11) International Publication Number: WO 00/42829

(43) International Publication Date: 20 July 2000 (20.07.00)

(21) International Application Number: PCT/JP00/00058

(22) International Filing Date: 7 January 2000 (07.01.00)

(30) Priority Data:
11/4411 11 January 1999 (11.01.99) JP

(71) Applicant (for all designated States except US): MAT-SUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, Oaza-Kadoma, Kadoma-shi, Osaka-fu 571-8501 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SUETSUGU, Kenichiro [JP/JP]; 5-2, Mondosou, Nishinomiya-shi, Hyogo 662-0825 (JP). HIBINO, Shunji [JP/JP]; 3-38-13, Higashikouri, Hirakata-shi, Osaka 573-0075 (JP). HIRANO, Masato [JP/JP]; 2-9-4, Shibaharacho, Toyonaka-shi, Osaka 560-0055 (JP). YAMAGUCHI, Atsushi [JP/JP]; Room A108, 5-15, Niina, Mino-shi, Osaka 562-0005 (JP). NAKATA, Mikiya [JP/JP]; Room C-501, 21, Kashikiriyama, Suita-shi, Osaka 565-0806 (JP).

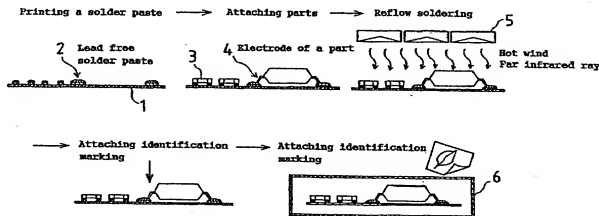
(74) Agent: ISHII, Kazuo; Kitahama-Yamamoto Building, 3-6, Kitahama 2-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 (JP).

(81) Designated States: CN, KR, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

With international search report.

(54) Title: ARTICLE HAVING A CIRCUIT SOLDERED WITH PARTS AND METHOD FOR RECYCLING WASTES OF THE SAME



(57) Abstract

The disclosure provides an article (6) having a circuit (1) mounted with parts (3) characterized by comprising an electronic part (3) soldered with a lead free solder (2) and having an identification marking indicating no inclusion of lead and an electrical appliance including the same. The present invention also provides a recycling method of wastes of the same. The present invention can offer an article having a circuit mounted with parts and an electrical appliance including the same both of which facilitate identification whether lead which is poisonous to human body is contained or not.